

CLAIMS

What is claimed is:

1. A method for distributing multimedia content, the method comprising:
 - a) storing an item of a multimedia content;
 - 5 b) firstly transcoding said content for playback on a first multimedia device;
 - c) generating a content ID of said firstly transcoded content;
 - d) storing said content ID of said firstly transcoded content in association with said stored content;
 - e) accessing said stored content using said content ID of said firstly transcoded
 - 10 content; and
 - f) secondly transcoding said stored content for playback on a second multimedia device.
2. A method according to claim 1 wherein said storing step comprises storing said
- 15 item of multimedia content at a multimedia message center (MMSC).
3. A method according to claim 1 wherein said storing step comprises storing said item of multimedia content together with an original content identifier (ID) identifying said content.
- 20 4. A method according to claim 1 wherein said storing step comprises storing said item of multimedia content together with an original content identifier (ID) that uniquely identifies said content.
- 25 5. A method according to claim 1 wherein said storing step comprises storing said item of multimedia content in its original form.
6. A method according to claim 1 wherein said storing step comprises storing said item of multimedia content such that said content may be partly or wholly reconstituted.
- 30 7. A method according to claim 3 and further comprising receiving said original content ID from a provider of said content.

8. A method according to claim 3 and further comprising generating said original content ID by applying either of a predefined hashing method and a predefined fingerprinting method to said content and using either of the resulting hash and fingerprint
5 as said original content ID.
9. A method according to claim 1 and further comprising associating said original content ID with different transcoded versions of said content.
- 10 10. A method according to claim 1 and further comprising sending a notification to said first multimedia device indicating that said content is available for download to said multimedia device.
11. A method according to claim 1 and further comprising delivering said firstly
15 transcoded content to said first multimedia device.
12. A method according to claim 1 and further comprising delivering said firstly transcoded content to said first multimedia device together with any of said content IDs.
- 20 13. A method according to claim 11 and further comprising:
g) receiving said firstly transcoded content from said first multimedia device;
and
h) regenerating said content ID of said firstly transcoded content.
- 25 14. A method according to claim 13 wherein said regenerating step comprises regenerating said content ID of said firstly transcoded content using the same method used to generate said content ID of said firstly transcoded content.

15. A method according to claim 13 and further comprising performing steps e) – h) in response to receiving instructions from said first multimedia device to forward said content to said second multimedia device.

5 16. A method according to claim 15 wherein said performing step comprises performing where said instructions include any of a copy of said firstly transcoded content and any of said content IDs.

17. A method according to claim 1 and further comprising protecting any of said
10 transcoded content with a content protection key (CPK).

18. A method according to claim 1 and further comprising:
identifying any rights associated with providing said content to any of said
multimedia devices;
15 generating at least one entitlement as a function of said rights; and
providing said content to any of said multimedia devices in accordance with
said entitlement.

19. A method according to claim 16 and further comprising:
20 determining if said copy of said firstly transcoded content is protected;
if said copy is protected, determining if said content may be forwarded to said
second multimedia device as indicated by any rights associated with either of said content
and the recipient of said firstly transcoded content; and
if said content may be forwarded, protecting and forwarding said secondly
25 transcoded content to said second multimedia device.

20. A method according to claim 19 and further comprising protecting said
secondly transcoded content with a content protection key (CPK) associated with said
secondly transcoded content.

21. A method according to claim 19 wherein said first determining step comprises determining that said copy of said firstly transcoded content is protected by identifying a CPK stored in association with the content ID.
- 5 22. A method for implementing digital rights management (DRM), the method comprising:
- determining the DRM capabilities of a multimedia device;
 - determining the DRM rights associated with an item of content;
 - determining an optimal level of DRM protection to apply to said content as a
- 10 function of said capabilities and said rights; and
- applying said optimal level of DRM protection to said item of content.
23. A method according to claim 22 wherein said determining an optimal level step comprises determining said optimal level as the highest-ranked level of DRM protection
- 15 that is both supported by said device and that is indicated by said content rights.
24. A method according to claim 22 wherein said determining an optimal level step comprises determining said optimal level as the highest-ranked level of DRM protection that is supported by said device.
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25. A method according to claim 22 wherein said determining an optimal level step comprises determining said optimal level as the highest-ranked level of DRM protection that is that is indicated by said content rights and that is below the highest-ranked level of DRM protection that is that is supported by said device.
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26. A multimedia content distribution system comprising:
- an MMS server;
 - an MMS relay;
 - a transcoder; and
- 30 a DRM server,

wherein said MMS server, MMS relay, transcoder, and DRM server are individually or cooperatively operative to:

- store an item of a multimedia content;
- firstly transcode said content for playback on a first multimedia device;
- 5 generate a content ID of said firstly transcoded content;
- store said content ID of said firstly transcoded content in association with said stored content;
- access said stored content using said content ID of said firstly transcoded content; and
- 10 secondly transcode said stored content for playback on a second multimedia device.

27. A system according to claim 26 wherein any of said MMS server, MMS relay, transcoder, and DRM server are individually or cooperatively operative to track to whom
15 said content is sent and with what rights.

28. A system according to claim 26 wherein said DRM server acts as either of a probe and a proxy between any of said MMS server, said MMS relay, and said transcoder.

- 20 29. A system for distributing multimedia content, the system comprising:
- a) means for storing an item of a multimedia content;
 - b) means for firstly transcoding said content for playback on a first multimedia device;
 - c) means for generating a content ID of said firstly transcoded content;
 - 25 d) means for storing said content ID of said firstly transcoded content in association with said stored content;
 - e) means for accessing said stored content using said content ID of said firstly transcoded content; and
 - f) means for secondly transcoding said stored content for playback on a second
30 multimedia device.

30. A system according to claim 29 wherein said means for storing is operative to store said item of multimedia content at a multimedia message center (MMSC).

31. A system according to claim 29 wherein said means for storing is operative to
5 store said item of multimedia content together with an original content identifier (ID) identifying said content.

32. A system according to claim 29 wherein said means for storing is operative to
10 store said item of multimedia content together with an original content identifier (ID) that uniquely identifies said content.

33. A system according to claim 29 wherein said means for storing is operative to store said item of multimedia content in its original form.

15 34. A system according to claim 29 wherein said means for storing is operative to store said item of multimedia content such that said content may be partly or wholly reconstituted.

35. A system according to claim 31 and further comprising means for receiving
20 said original content ID from a provider of said content.

36. A system according to claim 31 and further comprising means for generating
said original content ID by applying either of a predefined hashing system and a predefined
fingerprinting system to said content and using either of the resulting hash and fingerprint
25 as said original content ID.

37. A system according to claim 29 and further comprising means for associating
said original content ID with different transcoded versions of said content.

30 38. A system according to claim 29 and further comprising means for sending a notification to said first multimedia device indicating that said content is available for download to said multimedia device.

39. A system according to claim 29 and further comprising means for delivering said firstly transcoded content to said first multimedia device.

5 40. A system according to claim 29 and further comprising means for delivering said firstly transcoded content to said first multimedia device together with any of said content IDs.

41. A system according to claim 39 and further comprising:

10 g) means for receiving said firstly transcoded content from said first multimedia device; and

h) means for regenerating said content ID of said firstly transcoded content.

42. A system according to claim 41 wherein said means for regenerating is
15 operative to regenerate said content ID of said firstly transcoded content using the same system used to generate said content ID of said firstly transcoded content.

43. A system according to claim 41 where said means e) – h) are operative in
20 response to receiving instructions from said first multimedia device to forward said content to said second multimedia device.

44. A system according to claim 43 wherein said instructions include any of a copy of said firstly transcoded content and any of said content IDs.

25 45. A system according to claim 29 and further comprising means for protecting any of said transcoded content with a content protection key (CPK).

46. A system according to claim 29 and further comprising:
means for identifying any rights associated with providing said content to any
30 of said multimedia devices;
means for generating at least one entitlement as a function of said rights; and

means for providing said content to any of said multimedia devices in accordance with said entitlement.

47. A system according to claim 44 and further comprising:

5 means for determining if said copy of said firstly transcoded content is protected;

means, responsive to said copy being protected, for determining if said content may be forwarded to said second multimedia device as indicated by any rights associated with either of said content and the recipient of said firstly transcoded content; and

10 means, responsive to said content being forwardable, for protecting and forwarding said secondly transcoded content to said second multimedia device.

48. A system according to claim 47 and further comprising means for protecting said secondly transcoded content with a content protection key (CPK) associated with said
15 secondly transcoded content.

49. A system according to claim 47 wherein said first means for determining is operative to determine that said copy of said firstly transcoded content is protected by identifying a CPK stored in association with the content ID.
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50. A system for implementing digital rights management (DRM), the system comprising:

means for determining the DRM capabilities of a multimedia device;

means for determining the DRM rights associated with an item of content;

25 means for determining an optimal level of DRM protection to apply to said content as a function of said capabilities and said rights; and

means for applying said optimal level of DRM protection to said item of content.

30 51. A system according to claim 50 wherein said means for determining an optimal level is operative to determine said optimal level as the highest-ranked level of DRM

protection that is both supported by said device and that is indicated by said content rights.

52. A system according to claim 50 wherein said means for determining an optimal level is operative to determine said optimal level as the highest-ranked level of DRM protection that is supported by said device.

53. A system according to claim 50 wherein said means for determining an optimal level is operative to determine said optimal level as the highest-ranked level of DRM protection that is that is indicated by said content rights and that is below the highest-ranked level of DRM protection that is that is supported by said device.